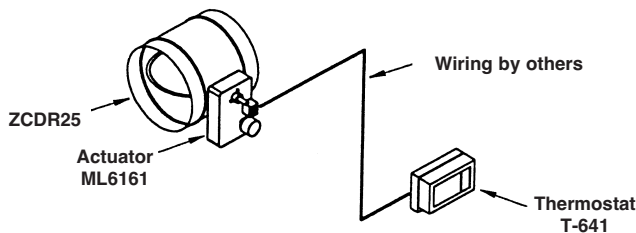


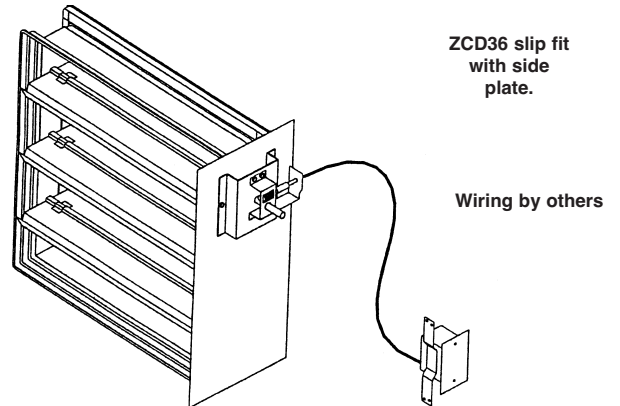
ZCDR25/ZCD36 ZONE DAMPER WITH AUTOMATION

APPLICATION

Ruskin Model ZCDR25 can be installed into existing round ductwork. Complete with 24V modulating actuator and field wired wall mounted thermostat giving individual control to office spaces with single or multiple branch ducting. For control of both heating and cooling modes refer to Ruskin Model ZCD-VAV.



Ruskin Model ZCD36 is perfectly suited for installation in rectangular ducting. Complete with actuation, wall thermostat and side plate. ZCD36 is to be used for single mode applications only. For control of both heating and cooling modes refer to Ruskin Model ZCD-VAV.



ZCDR25 STANDARD CONSTRUCTION

FRAME

20 gauge (1.0) galvanized steel up to 24" (610) diameter, 7" (178) long.

BLADE

Two layers of galvanized steel; 14 gauge (2.0) equivalent thickness.

BLADE SEAL

Polyethylene foam seal sandwiched between two sides of blades. Seal fully encompasses blade edge.

AXLE

1/2" (13) diameter.

BEARING

Stainless steel sleeve pressed into frame.

CONTROL SHAFT

Axle extends 6" (152) beyond frame exterior.

FINISH

Mill galvanized.

DAMPER SIZES

(D Diameter) 4", 5", 6", 8", 9", 10", 12", 14", 18", 20", 22", and 24" (102, 127, 152, 203, 229, 254, 305, 356, 406, 457, 508, 559, and 610).

**SINGLE SECTION ONLY MAXIMUM SYSTEM STATIC .5" W.G.
MAXIMUM SYSTEM VELOCITY 1000 FPM**

LIMIT 1 ACTUATOR PER DAMPER.

NOTES:

Dimensions shown in parenthesis () indicate millimeters.

Unit furnished approximately 1/8" (3) smaller than given opening dimensions.

Wiring by others, actuator installed on damper.

ZCD36 STANDARD CONSTRUCTION

FRAME

5" x 1" x 16 gauge (127 x 25 x 1.6) galvanized steel hat channel reinforced with corner braces for structural strength equal to 13 gauge (2.28) channel frames. Low profile 3 1/2" x 3/8" x 16 gauge (89 x 10 x 1.6) galvanized steel channel top and bottom frame on dampers under 13" (330) high.

BLADES

6" (152) wide, 16 (1.6) gauge galvanized steel blades approximately 6" (152) on center. Parallel or opposed action.

SEALS

Blade edge is PVC coated polyester fabric mechanically locked into blade edge. Jamb is flexible metal, compression type.

BEARINGS

Synthetic.

LINKAGE

Concealed in frame.

AXLES

1/2" (13) plated steel hex.

CONTROL SHAFT

6" (152) x 1/2" (13) diameter.

FINISH

Mill.

MAXIMUM SIZE

Single section only – 36"w x 36"h (914 x 914).

MINIMUM SIZE

Single blade – 5"w x 5"h (127 x 127).

Two blades, parallel or opposed action, concealed linkage – 5"w x 8"h (127 x 203).

TEMPERATURE LIMITS

-40°F (-40°C) minimum and +240°F (+116°C) maximum.

**SINGLE SECTION ONLY MAXIMUM SYSTEM STATIC .5" W.G.
MAXIMUM SYSTEM VELOCITY 1000 FPM**

LIMIT 1 ACTUATOR PER DAMPER.

ACTUATOR SPECIFICATIONS

ML6161B2032

| Product Specifications | |
|---|--|
| Type of Control | Electric |
| Fail Safe Mode | Non-Spring Return |
| Control Signal | SPST, On/off switch |
| Torque/Force (lb-in., lb) | 35 lb-in. |
| Torque/Force (Nm, N) | 4 Nm |
| External Aux Switches Available | Yes |
| Frequency (Hz) | 50 Hz, 60 Hz |
| Electrical connections (in) | Screw Terminals |
| Shaft Dimensions (in) | 3/8" to 1/2" square or round shaft |
| Shaft Dimensions (mm) | 9 mm to 13 mm |
| Mounting type | Direct Coupled |
| Dimensions (mm) | 141 mm high, 86 mm wide, 64 mm deep |
| Temperature Range, Ambient (C) | -18°C to +55°C |
| Temperature Range, Ambient (F) | 20°F to 125°F |
| Approvals, Underwriters Laboratories Inc. | File: E4436, Guide: XAPX2 |
| Includes | 4074ENJ Bag Assembly |
| Power Consumption Driving | 2.04 VA |
| Stroke Max (deg) (Angle of Rotation) | Adjustable w/accessory (30, 60, or deg) |
| Run Time | 7 min. |
| Description | Non-Spring Return Direct Coupled Actuator |
| Dimensions (in) | 5 9/16" high, 3 3/8" wide, 2 1/2" deep |

Electrical Ratings:

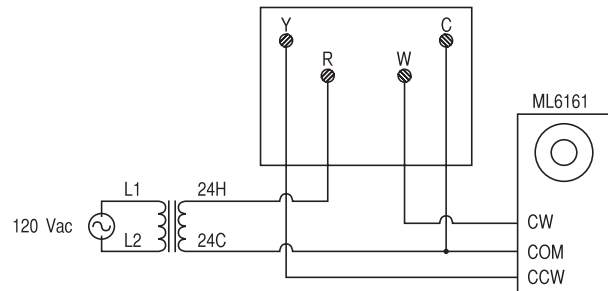
Power Input: 24 Vac \pm 20%, 50/60 Hz.

| Model | Power Consumption |
|---|-------------------|
| <input type="checkbox"/> ML6161A, B, C, D | 1.8 VA |

WALL THERMOSTAT SPECIFICATIONS

T641A1021

| Product Specifications | |
|--------------------------------|--|
| Output Signal | Floating (SP3T) 7 minute |
| Setpoint Temperature Range (F) | 45°F to 85°F |
| Setpoint Temperature Range (C) | 7°C to +29°C |
| Mounting | Wall mounted |
| Includes | External setpoint, less thermometer |
| Throttling Range (C) | 1.7 C |
| Throttling Range (F) | 3 F |
| Dimensions (in.) | 3 1/2" high 5 1/4" wide, 2 1/16" deep |
| Dimensions (mm) | 90 mm high, 133 mm wide, 52 mm deep |
| Frequency (Hz) | 50/60 Hz |
| Power Supply (volt) | 24 Vac |
| Output Signal Burden | 1 Amp @ 24 Vac Max |



ZCD36 & ZCDR25 WIRING

Heat or Cool without Automatic Change Over
Honeywell T641A (Viewed From Rear)

RUSKIN®

3900 Dr. Greaves Rd.
Kansas City, MO 64030
(816) 761-7476
FAX (816) 765-8955
www.ruskin.com